

LEGEND

TYPICAL SECTION
TYPE F NEXT BEAM

NOTE:
A DRIP GROOVE SHALL BE PROVIDED ON FASCIA
BEAMS.

END DRIP GROOVES 3'-0" FROM FACE OF
ABUTMENT WITH A 90° TURN TOWARD FASCIA
THAT INTERSECTS THE CHAMFER.

* ϕ IS THE THEORETICAL THICKNESS OF THE DECK SLAB BASED ON ASSUMED BEAM CAMBER. IT IS SHOWN TO ASSIST IN ESTIMATING THE MINIMUM SLAB THICKNESS AS WELL AS CONCRETE VOLUME.

ALL MEASUREMENTS ARE TAKEN AT CENTERLINE OF BEAM.

** CAMBER GROWTH IS ASSUMED TO BE 75% OF THE CAMBER AT TRANSFER.

ASSUMED LIVE LOAD = HL-93 AND NYSDOT PERMIT
VEHICLE FOR LRFD (HS 25 FOR LFD)

DEBOND SCHEMATIC




ALL PRESTRESSING STRANDS SHALL BE 0.6" DIAMETER, LOW RELAXATION STEEL
WITH A GUARANTEED ULTIMATE STRENGTH OF 270 ksi.
JACKING FORCE = 43.9 kips PER STRAND.
REQUIRED MINIMUM CONCRETE STRENGTH AT TRANSFER = 7 ksi.
REQUIRED MINIMUM CONCRETE STRENGTH AT 56 DAYS = 10 ksi.
ALLOWABLE TENSION IN THE PRESTRESSED CONCRETE UNITS:
AT TRANSFER = ksi.
AT SERVICE LIMIT STATE = ksi (HL-93)
AT SERVICE LIMIT STATE = ksi (NYSDOT PERMIT VEHICLE)

ALL BEAMS SHALL HAVE AN EXPOSED AGGREGATE FINISH ON ANY SURFACE THAT WILL BE IN CONTACT WITH THE CLOSURE POUR CONCRETE USED IN LONGITUDINAL JOINTS AND BACKWALLS.

PRESTRESSING STRANDS CUT FLUSH WITH THE END OF THE BEAM OR EXTENDED FOR INTEGRAL ABUTMENT APPLICATIONS SHALL BE PROTECTED AGAINST CORROSION BY THE APPLICATION OF ZINC PAINT IN ACCORDANCE WITH THE "REPAIR" PORTION OF THE NYS STANDARD SPECIFICATION SECTION 719.01. THE COST OF COATING THE STRANDS SHALL BE INCLUDED IN THE PRICE BID FOR THE BEAM ITEM.

THE TOPS OF PRESTRESSED UNITS SHALL RECEIVE A TRANSVERSE
ROUGHENED FINISH WITH AN AMPLITUDE OF 1/4 in.

REVISED	 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation Office of Structures
ERRATA	PRESTRESSED CONCRETE NEXT F BEAM TYPICAL SECTION & STRAND DETAILS	
	APPROVED: 02/17/17 ORIGINAL SIGNED BY <u>RICHARD MARCHIONE, P.E.</u> DEPUTY CHIEF ENGINEER (STRUCTURES)	ISSUED UNDER EB 17-010 EFFECTIVE WITH THE LETTING OF 09/01/17